



CDEM Resilience Fund project application form

This form provides the minimum of information for the application; a detailed project plan should be developed to inform this application and may be attached.

Project title		Response planning and catchment modelling – Western Waikato catchments
Date of application		14/6/2021
Details on application		
Applicant <i>(Note: CDEM Group must endorse/sponsor all applications)</i>		Otorohanga, Waitomo and Waipa district councils in partnership with Waikato Regional Council
Sponsoring CDEM Group		Waikato CDEM Group
Other local authorities, Groups or organisations supporting this proposal		
Project description		
<p>Executive summary <i>[200 words maximum description]</i></p> <p>Several key communities in the Waipa river catchment are at the mercy of an uncontrolled river system in the Waipa river. This catchment has seen flooding events in 1998, 2002, 2012 and 2017. Some of these communities rely on flood defence infrastructure such as stopbanks to provide protection against flooding during high rainfall events, whilst others have no physical defences and rely on interpretation of rainfall predictions by WRC to prevent impacts of flooding. The risks of this dependence have been highlighted in a number of events, including the Edgecumbe floods in 2017. In order to ensure the communities are well protected, a solid understanding of flood impacts and a sound knowledge of impacts and roles and responsibilities when responding to those impacts is required. This project proposes to resurvey the Waipa catchment area in areas where detailed modelling does not currently exist. This will allow reconfirmation of the modelling used over this area to predict flooding impacts and set appropriate design flood levels. For some areas, such as Te Kuiti, further modelling is required to refine the parameters for the purpose of CDEM evacuation modelling. Site specific stopbank breach modelling will also be undertaken for Otorohanga. This information will be used to develop collaborative plans with response stakeholders that aim to outline roles and responsibilities in flooding and provide a better understand of the risk to the community in this area.</p>		
<p>Challenge/opportunity <i>[200 words maximum description]</i></p> <p>Stopbanks, whilst very useful structures, alter the natural behaviours of rivers and streams within a catchment, meaning future events cannot be predicted based on past (pre-structure) events. In addition, the construction of stopbanks has been shown to reduce the risk awareness of communities and lower their preparedness. Detailed modelling and breach data will provide a conversation piece for raising communities' awareness of risks (risk literacy) and provide a starting point for development of response plans. Clearly defined roles and responsibilities in responses will increase the efficacy of responses and enable better recovery. At the same time there is an opportunity to build on previous work in areas without stopbanks to develop a better understanding of flood risk and inform CDEM evacuation planning. All of the Councils that have submitted this application are partnered with the Maniapoto Maori Trust Board in the Nga Wai o Waipa Joint Management Agreement. This agreement covers the Waipa river and tributaries and was signed in April 2013. If this application is successful will use the principles of co-operation, communication and co- management stated in the agreement to develop this proposal.</p>		
<p>Alignment with priorities and objectives of the National Disaster Resilience Strategy (NDRS) <i>[200 words maximum description]</i></p> <p>This project will contribute to better understanding of risk and hazard (objective 1) Development of response plans and socialisation of the developed plan will provide an opportunity to develop necessary processes and organisational structures to act on the risk (objective 2) Detailed modelling will develop a better understanding of the risk to communities (building risk literacy) and provide an opportunity to provide the community with accurate risk assessments (objective 3) A detailed understanding of risks and the subsequent response planning will enable assurance that the safety and wellbeing of people is at the heart of the emergency management system (objective 7)</p>		

All of the Councils that have submitted this application are partnered with the Maniapoto Maori Trust Board in the Nga Wai o Waipa Joint Management Agreement. This agreement covers the Waipa river and tributaries and was signed in April 2013. If this application is successful will use the principles of co-operation, communication and co- management stated in the agreement to develop this proposal. Development of detailed response plans will ensure it is clear who is responsible for what locally and regionally in the event of a flood (objective 10)

Alignment with Principles and Allocation Preferences *[200 words maximum description]*

This project has strong alignment with several objectives of the NDRS as outlined above. In addition it is outcome focussed, delivering response plans and catchment models. It requires operational expenditure and not capital expenditure as is NEMA's preference and builds on current understanding of catchment behaviour and response plans, to deliver a more comprehensive approach to keeping the communities of the Waipa catchment safe. It also builds on previous modelling undertaken by Tonkin and Taylor. It has a local focus, with some regional aspects to the investigation and progress on the project will be monitored by the Group. All of the Councils that have submitted this application are partnered with the Maniapoto Maori Trust Board in the Nga Wai o Waipa Joint Management Agreement. This agreement covers the Waipa river and tributaries and was signed in April 2013. If this application is successful will use the principles of co-operation, communication and co- management stated in the agreement to develop this proposal. This will support the allocation preference for valuing the role of Māori in the emergency management system and Achieving equity of outcomes for Māori communities, marae, hapū, iwi and Māori organisations.

Application of outcomes/benefits to sector *[200 words maximum description]*

The response plans generated can be used as a template for other communities with similar risks posed in the event of a Stopbank breach. There are a number of similar communities in the Waikato, Ngatea, Huntly and Paeroa to name a few.

Ongoing costs (post project) and how it will be funded *[Please provide a summary of ongoing costs (if any) and how it will be funded/managed - 200 words maximum]*

Ongoing costs such as updating plans and exercising and socialising plans will be accommodated within BAU projects and budgets

Project design

Project manager	Flood modelling – Rick Liefiting (WRC) Response planning – David Simes (EMO/ Controller – Western Waikato CDEM)
Other project members	Regional and District Council Engineers, emergency services, Regional Resilience team (WRC), CDEM staff at local council, local welfare committees and GEMO
External providers/contractors	To be identified if successful with bid
NEMA Resource (if required)	Not required

Deliverables *[Note: payments will be made after successful completion of milestones identified]*

Key Milestones	Date for completion	Cost (Invoice Amount)
Contractor engagement		\$
Preliminary modelling data provided		\$\$40,000
Final modelling data provided		\$10,000
Workshops and interviews with stakeholders completed		\$40,000
Draft response plans developed		\$10,000
Final response plans delivered		\$10,000

Identified risks					
Risks	Suggested mitigation / management				
Commitment to timeframes and completion of milestones	Appointment of project managers employed by the councils to oversee delivery				
Lack of engagement by stakeholders	Support for the project already exists at the TA and GEMO level. Strong relationships exist with emergency services and early engagement with these organisations will facilitate delivery of the project.				
Funding request and use					
CDEM Resilience Fund contribution	\$				
Local authority/organisation contribution	In-kind staff time for project management and leadership and technical input from engineers and others familiar with the catchment.				
Other sources of funding or support	To be investigated.				
Budget <i>[Please supply spreadsheet]</i>	\$110,000				
Applies if application exceeds \$100,000 over the life of the project	Are you prepared to attend an interview in support of this application (if needed)? <table border="0"> <tr> <td>Yes</td> <td><input checked="" type="checkbox"/></td> <td>No</td> <td><input type="checkbox"/></td> </tr> </table>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>		
Application confirmation					
Is this application from an individual or other organisation (not CDEM Group)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Does the CDEM Group support this application? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <i>(Sign-off below confirms support)</i>					
Approval of Chief Executive <i>(Chief Executive or Head of the organisation receiving the funding)</i>					
Approval of CEG Chair					
<i>All communications regarding the application, including approval decisions will be addressed to the Chief Executive and CEG Chair</i>					
CDEM Group comment					

Note: Only complete forms will be considered for assessment. All completed forms and supporting documents must be emailed to NEMA on Resilience.Fund@nema.govt.nz

NEMA Assessment (Internal Use Only)		
Principles	Yes	No
Local/Regional Focus	<input type="checkbox"/>	<input type="checkbox"/>
Valuing the role of Maori in Emergency Management System	<input type="checkbox"/>	<input type="checkbox"/>
NEMA involvement required	<input type="checkbox"/>	<input type="checkbox"/>
Allocation Preferences		
Alignment with NDRS	<input type="checkbox"/>	<input type="checkbox"/>

Achieving equity of outcomes for Māori communities, marae, hapū, iwi, and Māori organisations.	<input type="checkbox"/>	<input type="checkbox"/>
Outcome focused	<input type="checkbox"/>	<input type="checkbox"/>
Applicable in other regions/CDEM Groups	<input type="checkbox"/>	<input type="checkbox"/>
Enables national consistency	<input type="checkbox"/>	<input type="checkbox"/>
Wider funding/resource commitment (i.e. co-funding, on-going funding, resource time committed)	<input type="checkbox"/>	<input type="checkbox"/>
Builds on existing work	<input type="checkbox"/>	<input type="checkbox"/>
Operational expenditure (Opex)	<input type="checkbox"/>	<input type="checkbox"/>
Capital expenditure (Capex)	<input type="checkbox"/>	<input type="checkbox"/>
Other		
Application from individuals or other organisations endorsed/sponsored by CDEM Group	<input type="checkbox"/>	<input type="checkbox"/>
NEMA Subject Matter Expert Comment Supported <input type="checkbox"/> Not supported <input type="checkbox"/>		
NEMA Regional Emergency management Advisor Comment Supported <input type="checkbox"/> Not supported <input type="checkbox"/>		
NEMA Review Panel Comment Supported <input type="checkbox"/> Not supported <input type="checkbox"/>		
NEMA Director Decision Sign-off Approved <input type="checkbox"/> Declined <input type="checkbox"/>		
<hr/> Director of Civil Defence Emergency Management		